

September 16, 2016

Ms. Cheryl McHallam
Genesee County Land Bank Authority
452 South Saginaw Street, 2nd Floor
Flint, Michigan 48502

Subject: Limited Phase II Environmental Site Assessment (ESA)
902 North Stevenson Street
Flint, Michigan
AKT Peerless Project No. 11785s-2-20

Ms. McHallam:

The Genesee County Land Bank Authority (GCLBA) retained AKT Peerless Environmental & Energy Services (AKT Peerless) to conduct a Limited Phase II Environmental Site Assessment (ESA) of a property located at 902 North Stevenson Street in Flint, Michigan (subject property). This Limited Phase II ESA was conducted in accordance with AKT Peerless' Proposal for a Phase II ESA (Proposal Number PS-19655), dated August 8, 2016, and based on American Society for Testing and Materials (ASTM) Designation E 1903-97 "Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

This Phase II ESA scope of work is intended to: (1) evaluate for the presence of contamination on the subject property based on the recognized environmental condition (REC) identified in AKT Peerless' August 5, 2016 Phase I ESA and (2) evaluate levels of contamination to determine if the subject property meets the definition of a "facility"¹ as defined in Part 201 of Natural Resources and Environmental Protection Act (NREPA), Michigan Public Act (PA) 451, 1994, as amended. This letter report documents the field activities, sampling protocols, and laboratory results.

AKT Peerless' Phase II ESA was performed for the benefit of the GCLBA, who may rely on the contents and conclusions of this report.

Site Description

The subject property is located at 902 North Stevenson Street in Flint, Michigan and consists of one parcel (Parcel Identification Number 40-12-354-032), containing approximately 0.22 acres. The subject property contains one vacant commercial building. Exterior portions of the subject property consist of an asphalt parking lot.

¹ "Facility" means any area, place, or property where a hazardous substance in excess of the concentrations which satisfy the requirements of Sections 20120a(1)(a) or (17) or the cleanup criteria for unrestricted residential use under Part 213 has been released, deposited, disposed of, or otherwise comes to be located. Facility does not include any area, place, or property at which response activities have been completed which satisfy the cleanup criteria for the residential category provided for in section 20120a(1)(a) and (17) or at which corrective action has been completed under Part 213 which satisfies the cleanup criteria for unrestricted residential use.

Refer to Figure 1 for a topographic location map. See Figure 2 for a sample location map depicting subject property features.

Previous Environmental Investigations

AKT Peerless completed a Phase I ESA of the subject property on August 5, 2016. The purpose of AKT Peerless' Phase I ESA was to identify potential environmental issues associated with the subject property. AKT Peerless identified the following REC in connection with the subject property:

REC 1 - The subject property operated as a gasoline filling station from at least 1928 until approximately 1964 with at least four underground storage tanks (USTs). No known investigations have been conducted to evaluate the subsurface conditions of the subject property. AKT Peerless' research has not revealed detailed information regarding specific site operations including the removal of USTs, waste disposal, storage, and general housekeeping activities. The possibility exists that hazardous substances and/or petroleum products have impacted the subsurface of the subject property. Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of REC 1. In addition, based on the potential for abandoned USTs to be present, AKT Peerless recommends conducting a geophysical survey on the subject property.

Scope of Assessment

To evaluate the identified RECs, AKT Peerless conducted a subsurface investigation of the subject property on August 29, 2016, that included: (1) the advancement of nine soil borings, (2) the collection of four soil samples, (3) the installation of two temporary groundwater monitor wells, (4) the collection of two groundwater samples, and (5) the completion of a ground penetrating radar (GPR) survey to determine the presence/absence of any abandoned USTs. The following samples were submitted for laboratory analyses:

- Three soil samples for volatile organic compounds (VOCs), Polynuclear Aromatic Hydrocarbons (PNAs), and lead.
- One soil samples for VOCs.
- Two groundwater samples for VOCs, PNAs, and lead

All samples were delivered to a laboratory under chain-of-custody documentation.

AKT Peerless used hydraulic drive/direct-push (Geoprobe®) sampling techniques and followed the drilling procedures outlined in ASTM publication D 6282-98 "Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations." AKT Peerless collected continuous soil samples from the soil borings in four-foot intervals to the maximum depth explored of 8.0 feet below ground surface (bgs). AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location. Soil types were classified in accordance with ASTM publication D-2488 "Unified Soil Classification System." Refer to Figure 2 for a sample location map with soil boring locations. The soil boring logs are provided in Appendix A.

Quality Assurance/Quality Control

To ensure the accuracy of data collected during on-site activities, AKT Peerless implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to: (1) decontamination of sampling equipment before and between sampling events; (2)

calibration of field equipment; (3) documentation of field activities; and (4) sample preservation techniques.

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

A properly calibrated photoionization detector (PID) was used to field screen all soil samples. The PID was maintained in a calibrated condition using 100 ppm isobutylene span gas prior to subsurface investigations.

During AKT Peerless' Limited Phase II ESA activities, subject property conditions (i.e. soil boring locations, weather conditions) were documented. AKT Peerless visually inspected the soil samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as: (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and water table depth, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). See Appendix A for AKT Peerless' soil boring logs. See Figure 2 for a sample location map with soil boring locations.

AKT Peerless collected samples according to United States Environmental Protection Agency (USEPA) Publication SW-846, Testing Methods for Evaluating Solid Waste. Soil samples were collected in laboratory-supplied containers, stored on ice at approximately 4 degrees Celsius, and submitted under chain-of-custody documentation. Soil samples collected for VOCs were field preserved with methanol in accordance with U.S. EPA Method 5035. Soil samples collected for PNAs and metals analyses were stored in unpreserved, 4-ounce wide-mouth jars. Groundwater samples for VOCs were field preserved with hydrochloric acid. Groundwater samples collected for PNAs were stored in unpreserved 1-Liter amber jars.

Local Geology/Hydrology

During drilling activities, AKT Peerless encountered the following soil types:

- SAND ranged from 0.5 inches to 8.0 feet bgs in select borings. This sand was fine to medium grain and was brown and gray in color.
- CLAY ranged from 0.5 inches to 8.0 feet bgs in select borings. The clay exhibited moderate stiffness and was gray in color.

AKT Peerless encountered groundwater within the six of the nine soil borings from 3.5 to 4.0 feet bgs. Refer to Appendix A for soil boring logs.

Laboratory Analysis and Methods

AKT Peerless submitted four soil samples, two groundwater samples, and two QA/QC samples (duplicate and trip blank) for laboratory analysis. The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Method 8260B, (2) PNAs in accordance with USEPA Method 8270C, and (3) lead in accordance with USEPA Method 6020A.

Analytical Results

AKT Peerless conducted limited soil and groundwater sampling in areas believed likely to be impacted by contaminants based upon the RECs, as identified within the August 2016 Phase I ESA. AKT Peerless compared the laboratory analytical results to the Michigan Department of Environmental Quality (MDEQ) Part 201 Generic Residential Cleanup Criteria (RCC). The results of the investigation indicate the following:

- Naphthalene, benzene, n-butylbenzene, ethylbenzene, 2-methylnaphthalene, n-propylbenzene, 1,2,3-trimethylbenzene, and xylenes were detected within select soil samples in excess of the MDEQ Part 201 Generic RCC; specifically, the Residential Drinking Water Protection Criteria, Groundwater Surface Water Interface Protection Criteria, and/or Residential Soil Volatilization to Indoor Air Inhalation Criteria.
- Lead, naphthalene, benzene, ethylbenzene, and 1,2,3-trimethylbenzene were detected within select groundwater samples in excess of the MDEQ Part 201 Generic RCC; specifically, the Residential Drinking Water Criteria and/or Groundwater Surface Water Interface Criteria.

Based on laboratory analytical results, the subject property meets the definition of a facility, as defined in Part 201 of the NREPA, Michigan Public Act (PA) 451, 1994, as amended.

Refer to Figure 2 for a sample location map with soil boring and monitor well locations. Refer to Figure 3 and 4 for a site map with soil and groundwater analytical results exceeding MDEQ criteria. Refer to Table 1 for a summary of soil analytical results and Table 2 for a summary of groundwater analytical results. Refer to Appendix B for a complete analytical laboratory report, which contains all sampled parameters.

Ground Penetrating Radar Survey

On August 29, 2016, AKT Peerless conducted a geophysical survey in the area of the former gasoline filling station to identify any former UST cavities and potential abandoned USTs, if any. The Ground Penetrating Radar (GPR) survey was performed using a GSSI SIR-3000 GPR system with a 400- MHz dipole antenna. The instrument was calibrated prior to use to reflect site-specific conditions.

The geophysical survey conducted at the subject property identified several anomalies; however, were not consistent with any abandoned USTs. Furthermore, AKT Peerless advanced soil borings in these areas to confirm the absence of any abandoned USTs. AKT Peerless' soils borings did not identify any abandoned containers.

Conclusions and Recommendations

AKT Peerless completed nine soil borings, the collection of four soil samples, installation of two temporary groundwater monitor wells, collection of two groundwater samples, and completion of a GPR survey to evaluate the RECs identified in AKT Peerless' August 2016 Phase I ESA. Laboratory analytical results indicated that contaminant concentrations in soil and groundwater exceed MDEQ RCC. Therefore, the subject property meets the definition of a *facility*, as defined in Part 201 of the NREPA, Michigan Public Act (PA) 451, 1994, as amended.

AKT Peerless recommends any future owner(s)/operator(s) prepare a Baseline Environmental Assessment (BEA) report. Section 26(1)(c) of Part 201 provides certain liability protections to a person, who becomes an owner or operator of a *facility* on, or after June 5, 1995, if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier

of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to the MDEQ and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a facility, AKT Peerless recommends conducting a Section 20107(a) Compliance Analysis to assure compliance with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising due care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to the MDEQ and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility.
- Not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with response activities.

A future owner/operator may be required to conduct additional subsurface investigation to further evaluate for exposure pathways and screening levels at the subject property (i.e., drinking water, direct contact, indoor air inhalation, soil saturation) in connection with known contamination to comply with due care obligations.

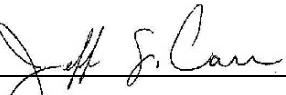
Limitations

The information and opinions obtained in this report are for the exclusive use of the GCLBA. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the GCLBA.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the GCLBA or third parties is complete or accurate.

Signatures of Environmental Professionals

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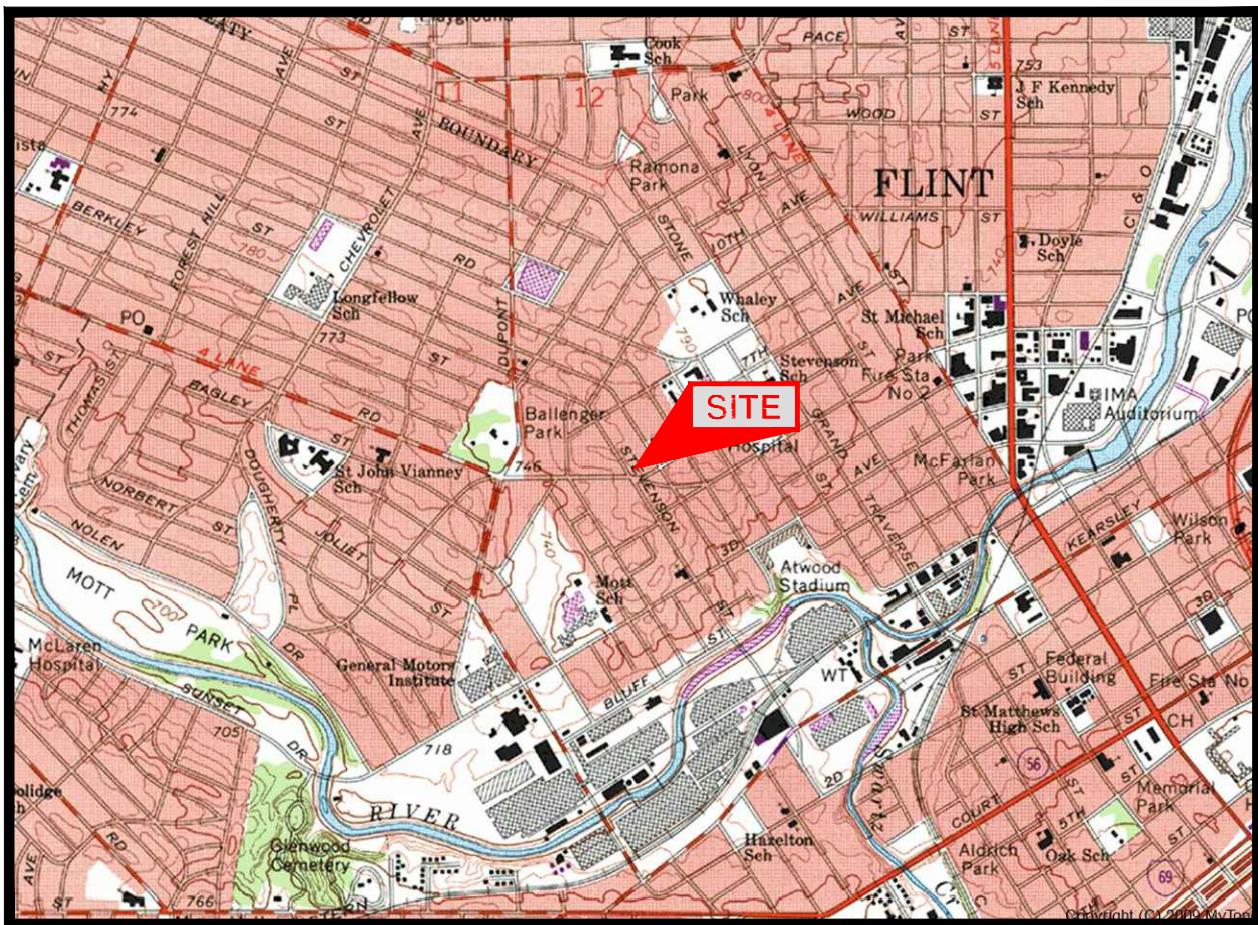
- Figures: Figure 1 – Topographic Location Map
 Figure 2 – Sample Location Map
 Figure 3 – Soil Results Exceeding MDEQ RCC
 Figure 4 – Groundwater Results Exceeding MDEQ RCC
- Tables: Table 1 – Summary of Soil Analytical Results
 Table 2 – Summary of Groundwater Analytical Results
 Table Footnotes
- Appendix A: Soil Boring Logs
Appendix B: Laboratory Analytical Results

FIGURES

FLINT NORTH QUADRANGLE

MICHIGAN - GENESEE COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)



T.7 N.-R.6 E.



MICHIGAN
QUADRANGLE LOCATION



IMAGE TAKEN FROM 1969 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1975

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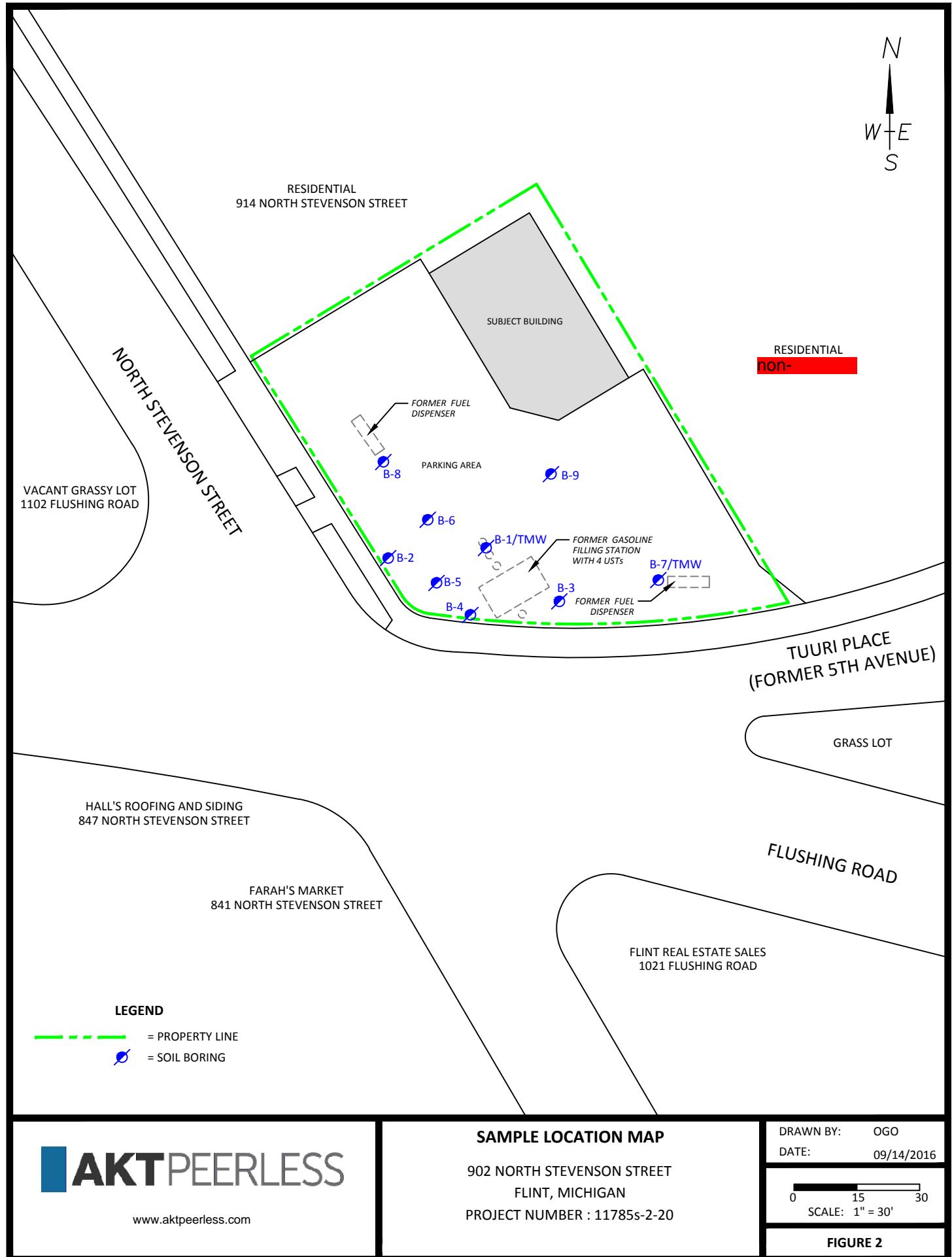
TOPOGRAPHIC LOCATION MAP

902 NORTH STEVENSON STREET
FLINT, MICHIGAN
PROJECT NUMBER : 11785s-2-20

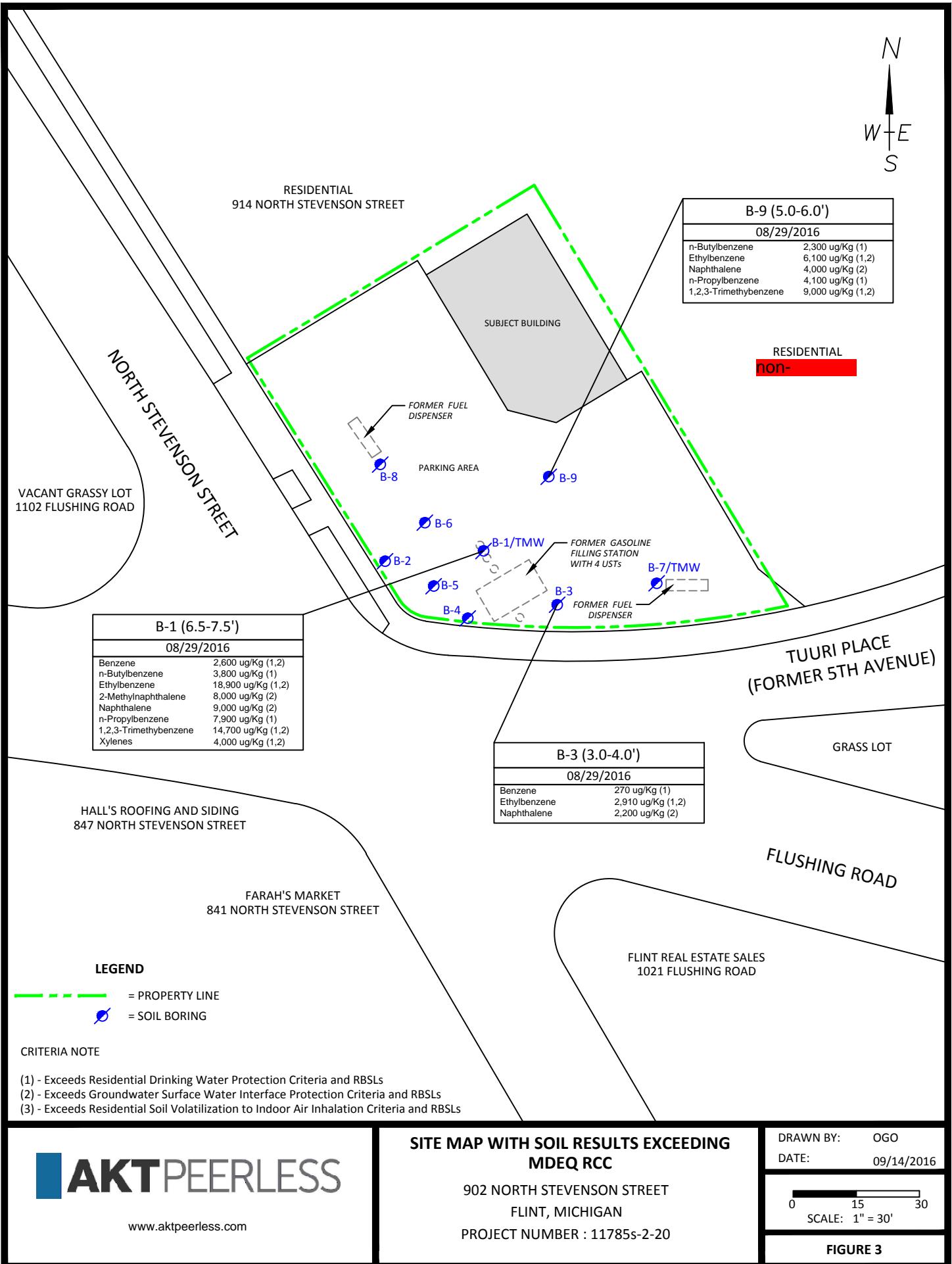
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DATE: 09/14/2016

FIGURE 1

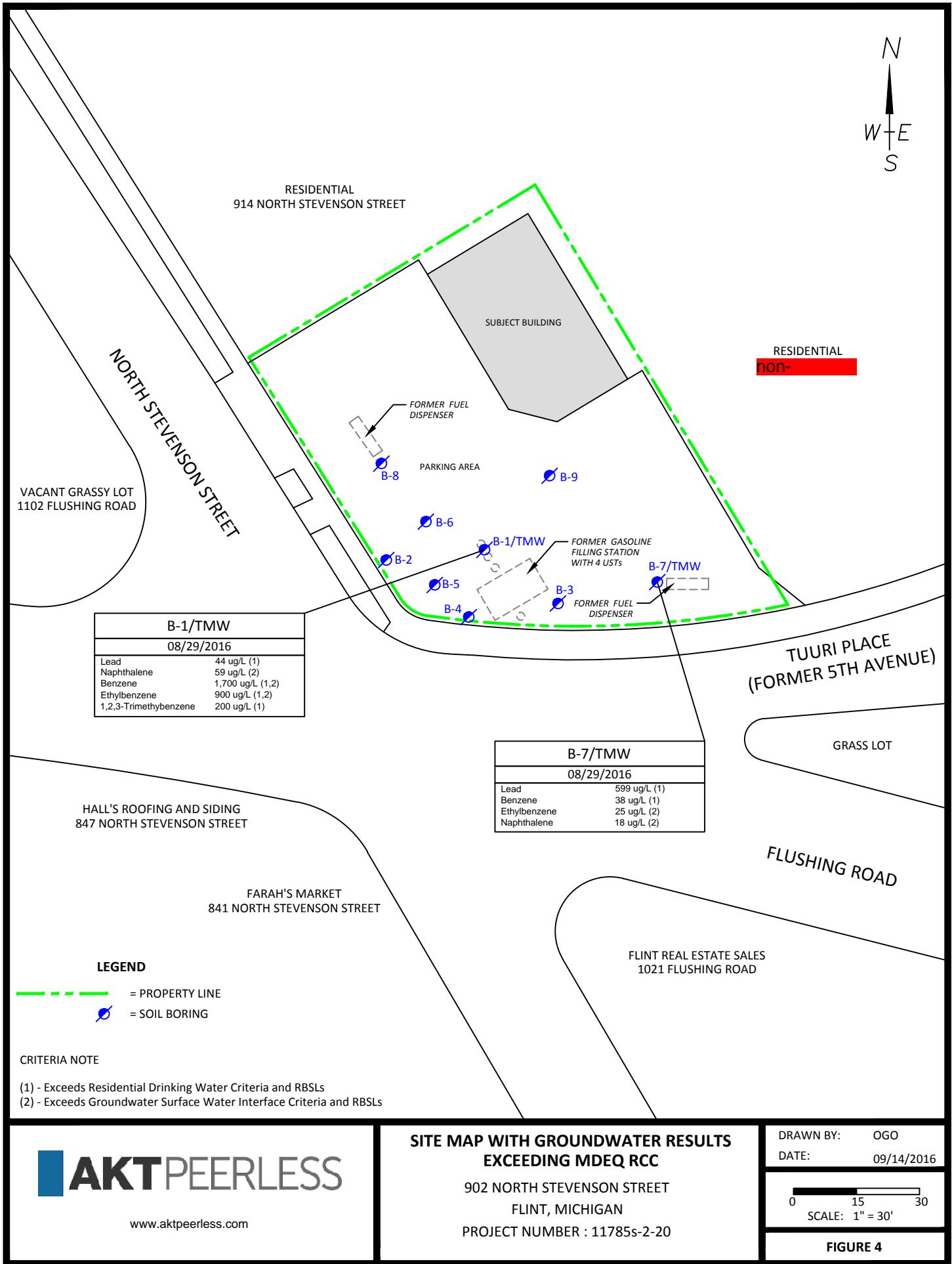
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TABLES

Table 1: Summary of Soil Analytical Results
902 North Stevenson Street
Flint, Michigan
AKT Peerless Project No. 11785s-2-20

Guidesheet Number →		#10	#11	#12	#13	#14	#15	#17	#18	#19	#20						
Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria and RBSLs	Groundwater Surface Water Interface Protection Criteria and RBSLs	Groundwater Contact Protection Criteria and RBSLs	Residential Soil Volatilization to Indoor Air Inhalation Criteria and RBSLs	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) and RBSLs	Residential Finite VSIC for 2 Meter Source Thickness	Residential Particulate Soil Inhalation Criteria (VSIC) and RBSLs	Residential Direct Contact Criteria and RBSLs	Residential Soil Saturation Concentration Screening Levels	Sample Location	B-1	B-3	B-7	B-9	Duplicate 1
												Collection Date	08/29/2016	08/29/2016	08/29/2016	08/29/2016	08/29/2016
*(Refer to detailed laboratory report for method reference data)												Depth	6.5-7.5'	3-4'	2.5-3.5'	5-6'	5-6'
Metals ug/Kg																	
Lead (B)	7439-92-1	21,000	7.0E+5	(G,X)	ID	NLV	NLV	NLV	1.0E+8	4.0E+5	NA		9,840	5,860	85,200	NS	NS
Semivolatiles, BNAs ug/Kg																	
Naphthalene	91-20-3	NA	35,000	730	2.1E+6	2.5E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA		400	1,000	<300	NS	NS
All Remaining BNAs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	NA		BDL	BDL	BDL	NS	NS
Semivolatiles, PNAs ug/Kg																	
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	5.5E+6	2.7E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA		<300	400	<300	NS	NS
Naphthalene	91-20-3	NA	35,000	730	2.1E+6	2.5E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA		400	800	<300	NS	NS
All Remaining PNAs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	NA		BDL	BDL	BDL	NS	NS
Volatiles, VOCs ug/Kg																	
Benzene (l)	71-43-2	NA	100	4,000 (X)	2.2E+5	1,600	13,000	79,000	3.8E+8	1.8E+5	4.0E+5		2,600	270	<60	<700	<70
n-Butylbenzene	104-51-8	NA	1,600	ID	1.2E+5	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7		3,800	780	360	2,300	1,170
sec-Butylbenzene	135-98-8	NA	1,600	ID	88,000	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7		<600	210	100	<700	320
Ethylbenzene (l)	100-41-4	NA	1,500	360	1.4E+5 (C)	87,000	7.2E+5	2.2E+6	1.0E+10	1.4E+5 (C)	1.4E+5		18,900	2,910	110	6,100	2,980
Isopropyl benzene	98-82-8	NA	91,000	3,200	3.9E+5 (C)	3.9E+5 (C)	1.7E+6	2.8E+6	5.8E+9	3.9E+5 (C)	3.9E+5		<3,000	300	<300	<3,000	600
p-Isopropyltoluene	99-87-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		<1,000	<100	<100	<1,000	200
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	5.5E+6	2.7E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA		8,000	2,300	600	4,000	2,300
Naphthalene	91-20-3	NA	35,000	730	2.1E+6	2.5E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA		9,000	2,200	300	4,000	2,300
n-Propylbenzene (l)	103-65-1	NA	1,600	ID	3.0E+5	ID	ID	ID	1.3E+9	2.5E+6	1.0E+7		7,900	1,310	<60	4,100	2,040
1,2,3-Trimethylbenzene*	526-73-8	NA	1,800	570	94,000 (C)	94,000 (C)	1.6E+7	3.8E+8	8.2E+10	94,000 (C)	94,000		14,700	330	120	9,000	4,390
Xylenes (l)	1330-20-7	NA	5,600	820	1.5E+5 (C)	1.5E+5 (C)	4.6E+7	1.3E+8	2.9E+11	1.5E+5 (C)	1.5E+5		4,000	200	<160	<1700	200

Table 2: Summary of Groundwater Analytical Results
902 North Stevenson Street
Flint, Michigan
AKT Peerless Project No. 11785s-2-20

Guidesheet Number →		#1	#3	#4	#6	#7	#8	#9												
Parameters*	Chemical Abstract Service Number	Residential Drinking Water Criteria and RBSLs	Groundwater Surface Water Interface Protection Criteria and RBSLs	Residential Groundwater Volatilization to Indoor Air Inhalation Criteria and RBSLs	Groundwater Contact Criteria and RBSLs	Water Solubility	Flammability and Explosivity Screening Level	Acute Inhalation Screening Level	Sample Location	B-1 / TMW	B-7 / TMW	Trip Blank								
									Collection Date	08/29/2016	08/29/2016	08/29/2016								
									Depth	3-8'	3-8'	NA								
<i>*(Refer to detailed laboratory report for method reference data)</i>																				
Metals ug/L																				
Lead (B)	7439-92-1	4.0 (L)	(G,X)	NLV	ID	NA	ID	ID		44	599	NS								
Semivolatiles, BNAs ug/L																				
Naphthalene	91-20-3	520	11	31,000 (S)	31,000 (S)	31,000	NA	31,000 (S)		59	8	NS								
All Remaining BNAs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies		BDL	BDL	NS								
Semivolatiles, PNAs, ug/L																				
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	25,000 (S)	24,600	ID	ID		8	6	NS								
Naphthalene	91-20-3	520	11	31,000 (S)	31,000 (S)	31,000	NA	31,000 (S)		13	6	NS								
All Remaining PNAs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies		BDL	BDL	NS								
Volatiles, VOCs ug/L																				
Acetone (I)	67-64-1	730	1,700	1.0E+9 (D,S)	3.1E+7	1.0E+9	1.5E+7	1.0E+9 (D)		<5,000	<50	<50								
Acrylonitrile (I)	107-13-1	2.6	2.0 (M); 1.2	34,000	14,000	7.50E+7	6.4E+6	ID		<200	<2	<2								
Benzene (I)	71-43-2	5.0 (A)	200 (X)	5,600	11,000	1.75E+6	68,000	67,000		1,700	38	<1								
n-Butylbenzene	104-51-8	80	ID	ID	5,900	NA	ID	ID		<100	2	<1								
sec-Butylbenzene	135-98-8	80	ID	ID	4,400	NA	ID	ID		<100	1	<1								
Ethylbenzene (I)	100-41-4	74 (E)	18	1.1E+5	1.7E+5 (S)	1.69E+5	43,000	1.7E+5 (S)		900	25	<1								
2-Methylnaphthalene	91-57-6	260	19	25,000 (S)	25,000 (S)	24,600	ID	ID		<500	11	<5								
Naphthalene	91-20-3	520	11	31,000 (S)	31,000 (S)	31,000	NA	31,000 (S)		<500	18	<5								
n-Propylbenzene (I)	103-65-1	80	ID	ID	15,000	NA	ID	ID		<100	4	<1								
Toluene (I)	108-88-3	790 (E)	270	5.3E+5 (S)	5.3E+5 (S)	5.26E+5	61,000	ID		<100	3	<1								
1,2,3-Trimethylbenzene*	526-73-8	63 (E)	17	56,000 (S)	56,000 (S)	55,890	56,000 (S)	ID		200	12	<1								
1,2,4-Trimethylbenzene (I)	95-63-6	63 (E)	17	56,000 (S)	56,000 (S)	55,890	56,000 (S)	ID		<100	5	<1								
1,3,5-Trimethylbenzene (I)	108-67-8	72 (E)	45	61,000 (S)	61,000 (S)	61,150	ID	ID		<100	3	<1								
Xylenes (I)	1330-20-7	280 (E)	41	1.9E+5 (S)	1.9E+5 (S)	1.86E+5	70,000	1.9E+5 (S)		<300	12	<3								
All Remaining VOCs	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies		BDL	BDL	BDL								

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C_{sat} or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or $1.0E+9$ parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120(a)(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of $2.0E+5$ ug/kg.
- (O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 or R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) in R 299.49.
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) **Groundwater:** The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH₃ assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH₃ is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH₃-N) concentration in the groundwater and the resulting NH₃ concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
- (DD) Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (EE) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (FF) The values listed in the table in Footnote (EE) in 299.49 are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (GG) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.
- (HH) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or $8.4E+6$ ug/m³.
- (II) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- (NA) Insufficient data to develop criterion.
- (NLL) A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- (NLV) Hazardous substance is not likely to leach under most soil conditions.
- (ug/kg) Micrograms per kilogram
- (ug/L) Micrograms per liter
- (NS) Not sampled
- (BDL) Below Laboratory Method Detection Limits
- BOLD** Exceeds highlighted criteria.

Appendix A

Soil Boring Logs



BORING LOG

902 North Stevenson Street

Flint, Michigan

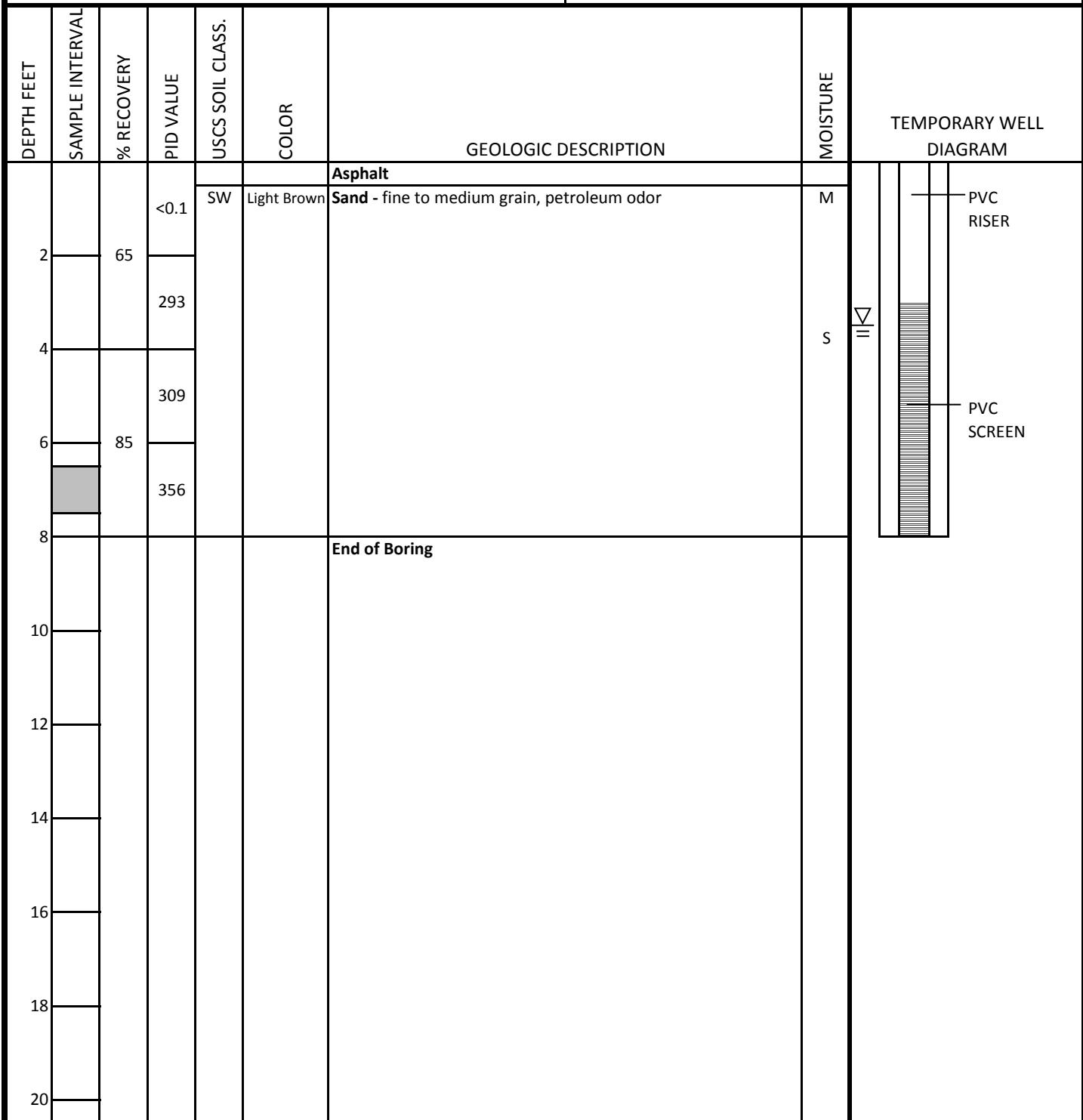
AKT Peerless Project No: 11785s-2-20

B-1/TMW

Drawn By: A. Bigler

Date: 9/14/2016

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, Mid 70's (°F)
TECHNICIAN:	Bill Fox	BORING DEPTH:	8'
DATE DRILLED:	08/29/16	DEPTH TO GW:	3.5'
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	3' - 8'
FIELD GEOLOGIST:	Aaron Bigler	SCREEN MATERIAL:	1" PVC - 10 Slot





BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-2

Drawn By: A. Bigler

Date: 9/14/2016



BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-3

Drawn By: A. Bigler

Date: 9/14/2016



BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-4

Drawn By: A. Bigler

Date: 9/14/2016



BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-5

Drawn By: A. Bigler

Date: 9/14/2016

Drilling Company: AKT Peerless				Weather: Sunny, Mid 70's (°F)			
Technician: Bill Fox				Boring Depth: 8'			
Date Drilled: 08/29/16				Depth to GW: 4'			
Drilling Method: Geoprobe				Screen Interval: NA			
Field Geologist: Aaron Bigler				Screen Material: NA			
Depth Feet	Sample Interval	% Recovery	PID Value	USCS Soil Class.	Color	Geologic Description	
2	60	<0.1	<0.1	SW	Light Brown	Asphalt Sand - fine to medium grain, petroleum odor	
4		<0.1		SW	Light Brown	Sand - fine to medium grain, petroleum odor gray staining from 4' - 7' BGS	
6	75	<0.1	<0.1				
8						End of Boring	
10							
12							
14							
16							
18							
20							
						Moisture	Temporary Well Diagram



BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-6

Drawn By: A. Bigler

Date: 9/14/2016

DRILLING COMPANY:				AKT Peerless		WEATHER:		Sunny, Mid 70's (°F)	
TECHNICIAN:				Bill Fox		BORING DEPTH:		8'	
DATE DRILLED:				08/29/16		DEPTH TO GW:		4'	
DRILLING METHOD:				Geoprobe		SCREEN INTERVAL:		NA	
FIELD GEOLOGIST:				Aaron Bigler		SCREEN MATERIAL:		NA	
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION			MOISTURE
						Asphalt			
2	60	<0.1	<0.1	SW	Light Brown	Sand - fine to medium grain, petroleum odor			M
4									
6	75	<0.1	<0.1	SW	Light Brown	Sand - fine to medium grain, petroleum odor gray staining from 4' - 7' BGS			S
8						End of Boring			
10									
12									
14									
16									
18									
20									
									TEMPORARY WELL DIAGRAM
									



BORING LOG

902 North Stevenson Street

Flint, Michigan

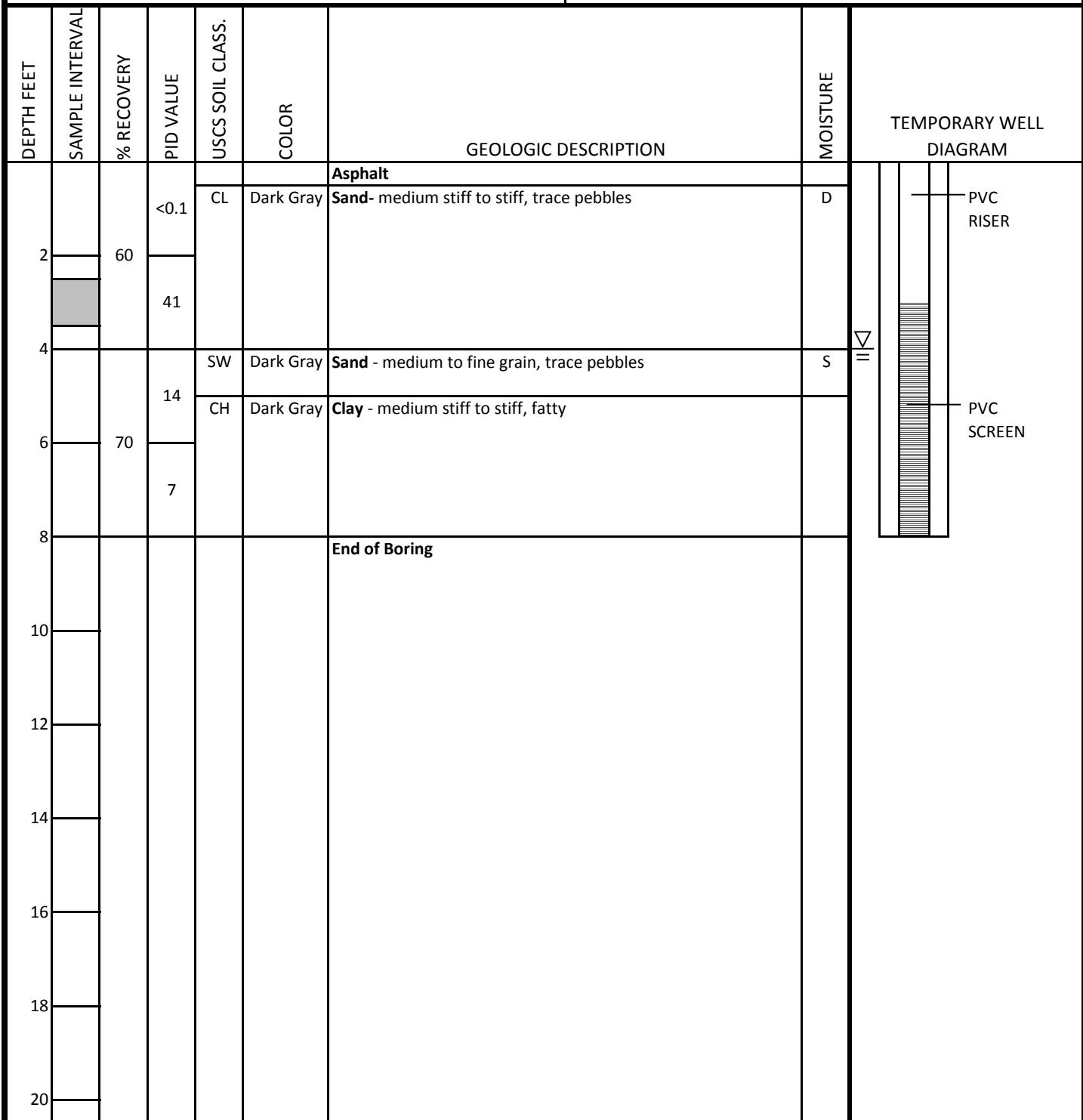
AKT Peerless Project No: 11785s-2-20

B-7/TMW

Drawn By: A. Bigler

Date: 9/14/2016

DRILLING COMPANY:	AKT Peerless	WEATHER:	Sunny, Mid 70's (°F)
TECHNICIAN:	Bill Fox	BORING DEPTH:	8'
DATE DRILLED:	08/29/16	DEPTH TO GW:	4'
DRILLING METHOD:	Geoprobe	SCREEN INTERVAL:	3' - 8'
FIELD GEOLOGIST:	Aaron Bigler	SCREEN MATERIAL:	1" PVC - 10 Slot





BORING LOG

902 North Stevenson Street

Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-8

Drawn By: A. Bigler

Date: 9/14/2016



BORING LOG

902 North Stevenson Street

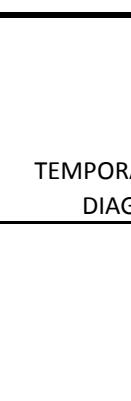
Flint, Michigan

AKT Peerless Project No: 11785s-2-20

B-9

Drawn By: A. Bigler

Date: 9/14/2016

Drilling Company: AKT Peerless				Weather: Sunny, Mid 70's (°F)			
Technician: Bill Fox				Boring Depth: 8'			
Date Drilled: 08/29/16				Depth to GW: 4'			
Drilling Method: Geoprobe				Screen Interval: NA			
Field Geologist: Aaron Bigler				Screen Material: NA			
Depth Feet	Sample Interval	% Recovery	PID Value	USCS Soil Class.	Color	Geologic Description	
2		55	<0.1	SW	Light Brown	Asphalt	
4			30			Sand - fine to medium grain, petroleum odor gray staining at 4' - 8' BGS	
6		50	365				
8			357				
10						End of Boring	
12							
14							
16							
18							
20							
						Moisture	Temporary Well Diagram
						M	
						S	

Appendix B

Laboratory Analytical Results



Analytical Laboratory Report

Report ID: S75779.01(01)

Generated on 09/13/2016

Report to

Attention: Jeff Carr
AKT Peerless Environmental
214 Janes
Saginaw, MI 48604

Phone: 989-754-9896 FAX: 989-754-3804

Email: carrj@aktpeerless.com

Report produced by

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S75779.01-S75779.08

Project: 11785s-2-20

Collected Date: 08/29/2016

Submitted Date/Time: 08/31/2016 12:40

Sampled by: Aaron Bigler

P.O. #:

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General Report Notes (Page 2)
Report Narrative (Page 2)
Laboratory Certifications (Page 3)
Qualifier Descriptions (Page 3)
Glossary of Abbreviations (Page 3)
Method Summary (Page 4)
Sample Summary (Page 5)

A handwritten signature in black ink, appearing to read "Maya Murshak".

Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



Analytical Laboratory Report

Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SM2540B	Standard Method 2540 B 20th Edition
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8260C/5035A	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW8270D	SW 846 Method 8270D Revision 4 February 2007



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S75779.01	B-1	Soil	08/29/16 00:01
S75779.02	B-1 / TMW	Water	08/29/16 00:01
S75779.03	B-3	Soil	08/29/16 00:01
S75779.04	B-7	Soil	08/29/16 00:01
S75779.05	B-7 / TMW	Water	08/29/16 00:01
S75779.06	B-9	Soil	08/29/16 00:01
S75779.07	Duplicate 1	Soil	08/29/16 00:01
S75779.08	Trip Blank	Water	08/29/16 00:01



Analytical Laboratory Report

Lab Sample ID: S75779.01

Sample Tag: B-1

Collected Date/Time: 08/29/2016 00:01

Matrix: Soil

COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.8	IR
1	40ml Glass	MeOH	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	09/06/16 12:00	JRH		
PNA Extraction	Completed			SW3550C	09/01/16 23:48	EMR		
Inorganics								
Total Solids*	88	%	1	SM2540B	09/01/16 09:25	JBL		
Metals								
Lead	9.84	mg/kg	0.20	SW6020A	09/07/16 13:03	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	208-96-8	
Anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	120-12-7	
Benz(a)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	56-55-3	
Benz(a)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	50-32-8	
Benz(b)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	205-99-2	
Benz(k)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	207-08-9	
Benz(ghi)perylene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	191-24-2	
Chrysene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	53-70-3	
Fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	193-39-5	
Naphthalene	400	ug/kg	300	SW8270D	09/07/16 06:32	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	85-01-8	
Pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	129-00-0	
2-Methylnaphthalene	400	ug/kg	300	SW8270D	09/07/16 06:32	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270D	09/07/16 06:32	PL	90-12-0	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	60-29-7	Y
Acetone*	Not detected	ug/kg	21,000	SW8260C/5035A	09/02/16 18:27	WAT	67-64-1	YX
Methyl iodide*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	74-88-4	Y
Carbon disulfide*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	107-13-1	Y
2-Butanone (MEK)*	Not detected	ug/kg	9,700	SW8260C/5035A	09/02/16 18:27	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	75-71-8	Y

Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S75779.01 (continued)

Sample Tag: B-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chloromethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	75-01-4	Y
Bromomethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	74-83-9	Y
Chloroethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	75-09-2	Y
trans-1,2-Dichloroethene*	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	75-34-3	Y
cis-1,2-Dichloroethene*	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	156-59-2	Y
Tetrahydrofuran*	Not detected	ug/kg	10,000	SW8260C/5035A	09/02/16 18:27	WAT	109-99-9	Y
Chloroform	Not detected	ug/kg	1,400	SW8260C/5035A	09/02/16 18:27	WAT	67-66-3	YX
Bromochloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	30,000	SW8260C/5035A	09/02/16 18:27	WAT	108-10-1	Y
2-Hexanone*	Not detected	ug/kg	30,000	SW8260C/5035A	09/02/16 18:27	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	56-23-5	Y
Benzene	2,600	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	10061-01-5	Y
Toluene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene*	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	124-48-1	Y
1,2-Dibromoethane*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 18:27	WAT	106-93-4	YM
Chlorobenzene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	630-20-6	Y
Ethylbenzene	18,900	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	100-41-4	Y
p,m-Xylene*	4,000	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT		Y
o-Xylene*	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	95-47-6	Y
Styrene*	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	98-82-8	Y
Bromoform*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	79-34-5	Y
1,2,3-Trichloropropane*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	96-18-4	Y
n-Propylbenzene	7,900	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	95-63-6	Y

Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S75779.01 (continued)

Sample Tag: B-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
sec-Butylbenzene	Not detected	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	14,700	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	526-73-8	Y
n-Butylbenzene	3,800	ug/kg	600	SW8260C/5035A	09/02/16 18:27	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/kg	4,000	SW8260C/5035A	09/02/16 18:27	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	4,300	SW8260C/5035A	09/02/16 18:27	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/kg	4,300	SW8260C/5035A	09/02/16 18:27	WAT	87-61-6	Y
Naphthalene	9,000	ug/kg	3,000	SW8260C/5035A	09/02/16 18:27	WAT	91-20-3	Y
2-Methylnaphthalene	8,000	ug/kg	1,000	SW8260C/5035A	09/02/16 18:27	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S75779.02
Sample Tag: B-1 / TMW
Collected Date/Time: 08/29/2016 00:01
Matrix: Water
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	09/06/16 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	09/06/16 12:00	JML		
PNA Extraction	Completed			SW3510C	08/31/16 23:32	EMR		
Metals								
Lead	0.044	mg/L	0.003	E200.8	09/06/16 12:11	CCM	7439-92-1	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270D	09/02/16 00:06	PL	83-32-9
Acenaphthylene	Not detected	ug/L	5	SW8270D	09/02/16 00:06	PL	208-96-8
Anthracene	Not detected	ug/L	5	SW8270D	09/02/16 00:06	PL	120-12-7
Benzo(a)anthracene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	56-55-3
Benzo(a)pyrene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	50-32-8
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	205-99-2
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	207-08-9
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	191-24-2
Chrysene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	218-01-9
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270D	09/02/16 00:06	PL	53-70-3
Fluoranthene	Not detected	ug/L	1	SW8270D	09/02/16 00:06	PL	206-44-0
Fluorene	Not detected	ug/L	5	SW8270D	09/02/16 00:06	PL	86-73-7
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270D	09/02/16 00:06	PL	193-39-5
Naphthalene	59	ug/L	5	SW8270D	09/02/16 00:06	PL	91-20-3
Phenanthrene	Not detected	ug/L	2	SW8270D	09/02/16 00:06	PL	85-01-8
Pyrene	Not detected	ug/L	5	SW8270D	09/02/16 00:06	PL	129-00-0
2-Methylnaphthalene	13	ug/L	5	SW8270D	09/02/16 00:06	PL	91-57-6
1-Methylnaphthalene	8	ug/L	5	SW8270D	09/02/16 00:06	PL	90-12-0

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether*	Not detected	ug/L	1,000	SW8260C	09/02/16 20:53	WAT	60-29-7	Y
Acetone	Not detected	ug/L	5,000	SW8260C	09/02/16 20:53	WAT	67-64-1	Y
Methyl iodide*	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	200	SW8260C	09/02/16 20:53	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	2,500	SW8260C	09/02/16 20:53	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	75-71-8	Y
Chloromethane*	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S75779.02 (continued)

Sample Tag: B-1 / TMW

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	156-59-2	Y
Tetrahydrofuran*	Not detected	ug/L	9,000	SW8260C	09/02/16 20:53	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	5,000	SW8260C	09/02/16 20:53	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	5,000	SW8260C	09/02/16 20:53	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	56-23-5	Y
Benzene	1,700	ug/L	100	SW8260C	09/02/16 20:53	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	630-20-6	Y
Ethylbenzene	900	ug/L	100	SW8260C	09/02/16 20:53	WAT	100-41-4	Y
p,m-Xylene*	Not detected	ug/L	200	SW8260C	09/02/16 20:53	WAT		Y
o-Xylene*	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	95-47-6	Y
Styrene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	79-34-5	Y
1,2,3-Trichloropropane*	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S75779.02 (continued)

Sample Tag: B-1 / TMW

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	200	ug/L	100	SW8260C	09/02/16 20:53	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	100	SW8260C	09/02/16 20:53	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	500	SW8260C	09/02/16 20:53	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S75779.03
Sample Tag: B-3
Collected Date/Time: 08/29/2016 00:01
Matrix: Soil
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.8	IR
1	40ml Glass	MeOH	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	09/06/16 12:00	JRH		
PNA Extraction	Completed			SW3550C	09/01/16 23:48	EMR		
Inorganics								
Total Solids*	88	%	1	SM2540B	09/01/16 09:25	JBL		
Metals								
Lead	5.86	mg/kg	0.20	SW6020A	09/07/16 13:04	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	208-96-8	
Anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	191-24-2	
Chrysene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	53-70-3	
Fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	193-39-5	
Naphthalene	1,000	ug/kg	300	SW8270D	09/07/16 06:50	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	85-01-8	
Pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 06:50	PL	129-00-0	
2-Methylnaphthalene	800	ug/kg	300	SW8270D	09/07/16 06:50	PL	91-57-6	
1-Methylnaphthalene	400	ug/kg	300	SW8270D	09/07/16 06:50	PL	90-12-0	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether*	Not detected	ug/kg	200	SW8260C/5035A	09/02/16 17:06	WAT	60-29-7	
Acetone*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:06	WAT	67-64-1	
Methyl iodide*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	74-88-4	
Carbon disulfide*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	200	SW8260C/5035A	09/02/16 17:06	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	107-13-1	
2-Butanone (MEK)*	Not detected	ug/kg	930	SW8260C/5035A	09/02/16 17:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S75779.03 (continued)

Sample Tag: B-3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	09/02/16 17:06	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	75-09-2	
trans-1,2-Dichloroethene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	75-34-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:06	WAT	109-99-9	
Chloroform	Not detected	ug/kg	150	SW8260C/5035A	09/02/16 17:06	WAT	67-66-3	X
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:06	WAT	108-10-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	56-23-5	
Benzene	270	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	124-48-1	
1,2-Dibromoethane*	Not detected	ug/kg	20	SW8260C/5035A	09/02/16 17:06	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	630-20-6	
Ethylbenzene	2,910	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	100-41-4	
p,m-Xylene*	200	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT		
o-Xylene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	95-47-6	
Styrene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	100-42-5	
Isopropylbenzene	300	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	98-82-8	
Bromoform*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	96-18-4	
n-Propylbenzene	1,310	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	95-63-6	
sec-Butylbenzene	210	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	541-73-1	

X-Elevated reporting limit due to matrix interference

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S75779.03 (continued)

Sample Tag: B-3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	95-50-1	
1,2,3-Trimethylbenzene	330	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	526-73-8	
n-Butylbenzene	780	ug/kg	60	SW8260C/5035A	09/02/16 17:06	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/02/16 17:06	WAT	67-72-1	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	09/02/16 17:06	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	09/02/16 17:06	WAT	87-61-6	
Naphthalene	2,200	ug/kg	300	SW8260C/5035A	09/02/16 17:06	WAT	91-20-3	
2-Methylnaphthalene	2,300	ug/kg	100	SW8260C/5035A	09/02/16 17:06	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S75779.04
Sample Tag: B-7
Collected Date/Time: 08/29/2016 00:01
Matrix: Soil
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.8	IR
1	40ml Glass	MeOH	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3050B	09/06/16 12:00	JRH		
PNA Extraction	Completed			SW3550C	09/01/16 23:48	EMR		
Inorganics								
Total Solids*	88	%	1	SM2540B	09/01/16 09:25	JBL		
Metals								
Lead	85.2	mg/kg	0.20	SW6020A	09/07/16 13:06	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	208-96-8	
Anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	191-24-2	
Chrysene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	53-70-3	
Fluoranthene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	206-44-0	
Fluorene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	193-39-5	
Naphthalene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	85-01-8	
Pyrene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270D	09/07/16 01:00	PL	90-12-0	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	60-29-7	
Acetone*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:26	WAT	67-64-1	
Methyl iodide*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	74-88-4	
Carbon disulfide*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	107-13-1	
2-Butanone (MEK)*	Not detected	ug/kg	940	SW8260C/5035A	09/02/16 17:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	75-01-4	



Analytical Laboratory Report

Lab Sample ID: S75779.04 (continued)

Sample Tag: B-7

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	75-09-2	
trans-1,2-Dichloroethene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	75-34-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:26	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:26	WAT	108-10-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	10061-01-5	
Toluene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	124-48-1	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW8260C/5035A	09/02/16 17:26	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	630-20-6	
Ethylbenzene	110	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT		
o-Xylene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	95-47-6	
Styrene*	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	98-82-8	
Bromoform*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	95-63-6	
sec-Butylbenzene	100	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	106-46-7	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S75779.04 (continued)

Sample Tag: B-7

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	120	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	526-73-8	
n-Butylbenzene	360	ug/kg	60	SW8260C/5035A	09/02/16 17:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/02/16 17:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	09/02/16 17:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	09/02/16 17:26	WAT	87-61-6	
Naphthalene	300	ug/kg	300	SW8260C/5035A	09/02/16 17:26	WAT	91-20-3	
2-Methylnaphthalene	600	ug/kg	100	SW8260C/5035A	09/02/16 17:26	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S75779.05
Sample Tag: B-7 / TMW
Collected Date/Time: 08/29/2016 00:01
Matrix: Water
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	09/06/16 10:00	CCM		
pH check for VOCs*	<2	STD Units		N/A	09/06/16 12:00	JML		
PNA Extraction	Completed			SW3510C	08/31/16 23:32	EMR		
Metals								
Lead	0.599	mg/L	0.003	E200.8	09/06/16 12:11	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270D	09/02/16 00:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270D	09/02/16 00:24	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270D	09/02/16 00:24	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	191-24-2	X
Chrysene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	218-01-9	X
Dibenzo(ah)anthracene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	53-70-3	X
Fluoranthene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	206-44-0	X
Fluorene	Not detected	ug/L	5	SW8270D	09/02/16 00:24	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	193-39-5	X
Naphthalene	8	ug/L	5	SW8270D	09/02/16 00:24	PL	91-20-3	
Phenanthrene	Not detected	ug/L	3	SW8270D	09/02/16 00:24	PL	85-01-8	X
Pyrene	Not detected	ug/L	5	SW8270D	09/02/16 00:24	PL	129-00-0	
2-Methylnaphthalene	6	ug/L	5	SW8270D	09/02/16 00:24	PL	91-57-6	
1-Methylnaphthalene	6	ug/L	5	SW8270D	09/02/16 00:24	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW8260C	09/12/16 16:58	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	09/12/16 16:58	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	09/12/16 16:58	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	09/12/16 16:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-01-4	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S75779.05 (continued)

Sample Tag: B-7 / TMW

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW8260C	09/12/16 16:58	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	09/12/16 16:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	09/12/16 16:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	56-23-5	
Benzene	38	ug/L	1	SW8260C	09/12/16 16:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	10061-01-5	
Toluene	3	ug/L	1	SW8260C	09/12/16 16:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	630-20-6	
Ethylbenzene	25	ug/L	1	SW8260C	09/12/16 16:58	WAT	100-41-4	
p,m-Xylene*	7	ug/L	2	SW8260C	09/12/16 16:58	WAT		
o-Xylene*	5	ug/L	1	SW8260C	09/12/16 16:58	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	96-18-4	
n-Propylbenzene	4	ug/L	1	SW8260C	09/12/16 16:58	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	108-86-1	
1,3,5-Trimethylbenzene	3	ug/L	1	SW8260C	09/12/16 16:58	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	98-06-6	
1,2,4-Trimethylbenzene	5	ug/L	1	SW8260C	09/12/16 16:58	WAT	95-63-6	
sec-Butylbenzene	1	ug/L	1	SW8260C	09/12/16 16:58	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/12/16 16:58	WAT	95-50-1	



Analytical Laboratory Report

Lab Sample ID: S75779.05 (continued)

Sample Tag: B-7 / TMW

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trimethylbenzene	12	ug/L	1	SW8260C	09/12/16 16:58	WAT	526-73-8	
n-Butylbenzene	2	ug/L	1	SW8260C	09/12/16 16:58	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	09/12/16 16:58	WAT	87-61-6	
Naphthalene	18	ug/L	5	SW8260C	09/12/16 16:58	WAT	91-20-3	
2-Methylnaphthalene	11	ug/L	5	SW8260C	09/12/16 16:58	WAT	91-57-6	
Volatile Organics - DEQ List (Replicate 01)								
Diethyl ether*	Not detected	ug/L	50	SW8260C	09/07/16 17:56	JGH	60-29-7	
Acetone	Not detected	ug/L	250	SW8260C	09/07/16 17:56	JGH	67-64-1	
Methyl iodide*	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	10	SW8260C	09/07/16 17:56	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	130	SW8260C	09/07/16 17:56	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	75-71-8	
Chloromethane*	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-01-4	
Bromomethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	74-83-9	
Chloroethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	450	SW8260C	09/07/16 17:56	JGH	109-99-9	
Chloroform	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	250	SW8260C	09/07/16 17:56	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	250	SW8260C	09/07/16 17:56	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	56-23-5	
Benzene	38	ug/L	5	SW8260C	09/07/16 17:56	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	10061-01-5	
Toluene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S75779.05 (continued)

Sample Tag: B-7 / TMW

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (Replicate 01) (continued)								
Chlorobenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	630-20-6	
Ethylbenzene	24	ug/L	5	SW8260C	09/07/16 17:56	JGH	100-41-4	
p,m-Xylene*	Not detected	ug/L	10	SW8260C	09/07/16 17:56	JGH		
o-Xylene*	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	95-47-6	
Styrene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	98-82-8	
Bromoform	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	98-06-6	
1,2,4-Trimethylbenzene	6	ug/L	5	SW8260C	09/07/16 17:56	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	95-50-1	
1,2,3-Trimethylbenzene	18	ug/L	5	SW8260C	09/07/16 17:56	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	5	SW8260C	09/07/16 17:56	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	87-61-6	
Naphthalene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	30	SW8260C	09/07/16 17:56	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S75779.06

Sample Tag: B-9

Collected Date/Time: 08/29/2016 00:01

Matrix: Soil

COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.8	IR
1	40ml Glass	MeOH	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids*								
	86	%	1	SM2540B	09/01/16 09:25	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 60-29-7		Y
Acetone*	Not detected	ug/kg	21,000	SW8260C/5035A	09/02/16 18:47	WAT 67-64-1		YX
Methyl iodide*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 74-88-4		Y
Carbon disulfide*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 75-15-0		Y
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 1634-04-4		Y
Acrylonitrile	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 107-13-1		Y
2-Butanone (MEK)*	Not detected	ug/kg	9,900	SW8260C/5035A	09/02/16 18:47	WAT 78-93-3		Y
Dichlorodifluoromethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 75-71-8		Y
Chloromethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 74-87-3		Y
Vinyl chloride	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 75-01-4		Y
Bromomethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 74-83-9		Y
Chloroethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 75-00-3		Y
Trichlorofluoromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 75-69-4		Y
1,1-Dichloroethene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 75-35-4		Y
Methylene chloride	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 75-09-2		Y
trans-1,2-Dichloroethene*	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 156-60-5		Y
1,1-Dichloroethane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 75-34-3		Y
cis-1,2-Dichloroethene*	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 156-59-2		Y
Tetrahydrofuran*	Not detected	ug/kg	10,000	SW8260C/5035A	09/02/16 18:47	WAT 109-99-9		Y
Chloroform	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 67-66-3		YX
Bromochloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 74-97-5		Y
1,1,1-Trichloroethane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 71-55-6		Y
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	30,000	SW8260C/5035A	09/02/16 18:47	WAT 108-10-1		Y
2-Hexanone*	Not detected	ug/kg	30,000	SW8260C/5035A	09/02/16 18:47	WAT 591-78-6		Y
Carbon tetrachloride	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 56-23-5		Y
Benzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 71-43-2		Y
1,2-Dichloroethane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 107-06-2		Y
Trichloroethene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 79-01-6		Y
1,2-Dichloropropane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 78-87-5		Y
Bromodichloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT 75-27-4		Y
Dibromomethane	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT 74-95-3		Y
cis-1,3-Dichloropropene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 10061-01-5		Y
Toluene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 108-88-3		Y
trans-1,3-Dichloropropene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 10061-02-6		Y
1,1,2-Trichloroethane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 79-00-5		Y
Tetrachloroethene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT 127-18-4		Y

Y-Elevated reporting limit due to high target concentration

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S75779.06 (continued)

Sample Tag: B-9

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,4-Dichloro-2-butene*	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	124-48-1	Y
1,2-Dibromoethane*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 18:47	WAT	106-93-4	YM
Chlorobenzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	630-20-6	Y
Ethylbenzene	6,100	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	100-41-4	Y
p,m-Xylene*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT		Y
o-Xylene*	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	95-47-6	Y
Styrene*	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT	98-82-8	Y
Bromoform*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	79-34-5	Y
1,2,3-Trichloropropane*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	96-18-4	Y
n-Propylbenzene	4,100	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	9,000	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	526-73-8	Y
n-Butylbenzene	2,300	ug/kg	700	SW8260C/5035A	09/02/16 18:47	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/kg	4,000	SW8260C/5035A	09/02/16 18:47	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	4,300	SW8260C/5035A	09/02/16 18:47	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/kg	4,300	SW8260C/5035A	09/02/16 18:47	WAT	87-61-6	Y
Naphthalene	4,000	ug/kg	3,000	SW8260C/5035A	09/02/16 18:47	WAT	91-20-3	Y
2-Methylnaphthalene	4,000	ug/kg	1,000	SW8260C/5035A	09/02/16 18:47	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S75779.07
Sample Tag: Duplicate 1
Collected Date/Time: 08/29/2016 00:01
Matrix: Soil
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.8	IR
1	40ml Glass	MeOH	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Inorganics								
Total Solids*								
	86	%	1	SM2540B	09/01/16 09:25	JBL		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	60-29-7	
Acetone*	Not detected	ug/kg	7,000	SW8260C/5035A	09/02/16 17:46	WAT	67-64-1	X
Methyl iodide*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	74-88-4	
Carbon disulfide*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	3,700	SW8260C/5035A	09/02/16 17:46	WAT	107-13-1	X
2-Butanone (MEK)*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	75-09-2	
trans-1,2-Dichloroethene*	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	75-34-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW8260C/5035A	09/02/16 17:46	WAT	109-99-9	
Chloroform	Not detected	ug/kg	360	SW8260C/5035A	09/02/16 17:46	WAT	67-66-3	X
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:46	WAT	108-10-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW8260C/5035A	09/02/16 17:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	10061-01-5	
Toluene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	110-57-6	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S75779.07 (continued)

Sample Tag: Duplicate 1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	124-48-1	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW8260C/5035A	09/02/16 17:46	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	630-20-6	
Ethylbenzene	2,980	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	100-41-4	
p,m-Xylene*	200	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT		
o-Xylene*	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	95-47-6	
Styrene*	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	100-42-5	
Isopropylbenzene	600	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	98-82-8	
Bromoform*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	96-18-4	
n-Propylbenzene	2,040	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	95-63-6	
sec-Butylbenzene	320	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	135-98-8	
p-Isopropyltoluene	200	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	4,390	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	526-73-8	
n-Butylbenzene	1,170	ug/kg	70	SW8260C/5035A	09/02/16 17:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/02/16 17:46	WAT	67-72-1	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	09/02/16 17:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	09/02/16 17:46	WAT	87-61-6	
Naphthalene	2,300	ug/kg	300	SW8260C/5035A	09/02/16 17:46	WAT	91-20-3	
2-Methylnaphthalene	2,300	ug/kg	100	SW8260C/5035A	09/02/16 17:46	WAT	91-57-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S75779.08
Sample Tag: Trip Blank
Collected Date/Time: 08/29/2016 00:01
Matrix: Water
COC Reference: 84341

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep. pH check for VOCs*	<2	STD Units		N/A	09/06/16 12:00	JML		

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether*	Not detected	ug/L	10	SW8260C	09/02/16 02:13	JGH	60-29-7
Acetone	Not detected	ug/L	50	SW8260C	09/02/16 02:13	JGH	67-64-1
Methyl iodide*	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	74-88-4
Carbon disulfide	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	75-15-0
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	1634-04-4
Acrylonitrile	Not detected	ug/L	2	SW8260C	09/02/16 02:13	JGH	107-13-1
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	09/02/16 02:13	JGH	78-93-3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	75-71-8
Chloromethane*	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	74-87-3
Vinyl chloride	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-01-4
Bromomethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	74-83-9
Chloroethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	75-00-3
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-69-4
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-35-4
Methylene chloride	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	75-09-2
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	156-60-5
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-34-3
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	156-59-2
Tetrahydrofuran*	Not detected	ug/L	90	SW8260C	09/02/16 02:13	JGH	109-99-9
Chloroform	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	67-66-3
Bromochloromethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	74-97-5
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	71-55-6
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	09/02/16 02:13	JGH	108-10-1
2-Hexanone	Not detected	ug/L	50	SW8260C	09/02/16 02:13	JGH	591-78-6
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	56-23-5
Benzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	71-43-2
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	107-06-2
Trichloroethene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	79-01-6
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	78-87-5
Bromodichloromethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-27-4
Dibromomethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	74-95-3
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	10061-01-5
Toluene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	108-88-3
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	10061-02-6
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	79-00-5
Tetrachloroethene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	127-18-4
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	110-57-6
Dibromochloromethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	124-48-1
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	106-93-4



Analytical Laboratory Report

Lab Sample ID: S75779.08 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW8260C	09/02/16 02:13	JGH		
o-Xylene*	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	09/02/16 02:13	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	09/02/16 02:13	JGH	91-57-6	

Merit

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C.O.C. PAGE # 1 OF 1

84341

REPORT TO

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CHAIN OF CUSTODY RECORD**INVOICE TO** SAME

CONTACT NAME

COMPANY

ADDRESS

CITY

STATE ZIP CODE

PHONE NO.

E-MAIL ADDRESS

PROJECT NO./NAME 11785s-2-20 SAMPLER(S) - PLEASE PRINT/SIGN NAME Baron Bigler

TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHERDELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV EDD OTHER

MATRIX	GW=GROUNDWATER	WW=WASTEWATER	S=SOIL	L=LIQUID	SD=SOLID	
CODE:	SL=SLUDGE	DW=DRINKING WATER	O=OIL	WP=WIPE	A=AIR	W=WASTE

# Containers & Preservatives						
NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER
<u>VOCs</u>						
<u>PhM</u>						
<u>Lead</u>						

Certifications

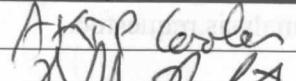
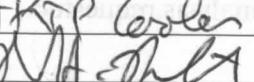
- OHIO VAP Drinking Water
 DoD NPDES

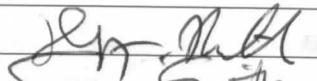
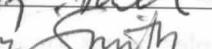
Project Locations

- Detroit New York
 Other _____

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	
	DATE	TIME											
75779.01	8/29/16	B-1		S	2	1				X	X		
.02		B-1/TMW		W	5	131				X	X		
.03		B-3		S	2	1				X	X		
.04		B-7		S	2	1				X	X		
.05		B-7/TMW		W	5	131				X	X		
.06		B-9		S	2	0				X			
.07		Duplicate 1		S	2	1				X			
.08		Trip Blank		W	3	3				X			

RELINQUISHED BY: SIGNATURE/ORGANIZATION		Sampler	DATE <u>8/29/16</u>	TIME <u>1300</u>
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE <u>8/29/16</u>	TIME <u>1300</u>
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE <u>8/31/16</u>	TIME <u>9:40</u>
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE <u>8/31/16</u>	TIME <u>9:40</u>

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE <u>8/31/16</u>	TIME <u>10:40</u>
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE <u>8/31/16</u>	TIME <u>1240</u>
SEAL NO.	SEAL INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO	INITIALS	NOTES: TEMP. ON ARRIVAL <u>58</u>
SEAL NO.	SEAL INTACT <input type="checkbox"/> YES <input type="checkbox"/> NO	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE